Documentation for group_parse 11/4/02

1.0 General Information

1.1 Application Description

This program populates the cgroup, fgroup, and fgroupseg database tables from NWSRFS punches. If the tables already have data in them, the user will have the choice of either unloading and deleting all of the rows or simply updating the tables. The main program is written in esql/C and the unload/delete function is written in Tcl.

1.2 Design Considerations

The program parses the needed information from NWSRFS fcinit punches of carryover groups and forecast groups. Attachment A contains samples of these punch files. See NWSRFS User Documentation for more information.

The cgroup_abbr column in the cgroup table is only populated if the cgroupid contains an underscore ('_'). In this case, the character after the underscore is used as the abbreviation (i.e. cgroupid=CBRFC_F; cgroup_abbr=F).

1.3 Application Assumptions

2.0 Configuration Information

This program makes use of the following apps_default token:

adb_name	archive database name
adb_dir	archive base directory

A log file is written to $(adb_dir)/logs/nwsrfs/group_parse.log

The unload files for the database tables are created in the directory $(adb_dir)/data/nwsrfs. Names correspond to each of the database tables and are date stamped.

The input files are expected to be in the directory $(adb_dir)/data/nwsrfs.

3.0 User How-To

The first step is to create the punch files of carryover groups and forecast groups that will be used as input to the program (see NWSRFS User Documentation for help with this). The punch of the carryover groups needs to be named **cg.pun** and placed in $(adb_dir)/data/nwsrfs. This file should contain all of the defined

carryover groups. Each of the forecast groups needs to be in a separate file and named ***fgid*.pun** where *fgid* is the forecast group id. For example, the sample forecast group punch file in Attachment A would be named gn_f.pun and placed in $(adb_dir)/data/nwsrfs.

The program can be run on the command line by simply typing *group_parse*. The first thing the program does is to check whether the cgroup, fgroup, and fgroupseg tables are empty. If they are not empty it will ask the user to choose one of the following:

1. Unload and delete all rows before continuing
2. Continue and just add to/update current rows
3. Quit

If the user chooses option 1 the tcl program group_del will be run and unload files will be created as described in the Configuration Information above and the tables will be emptied.

4.0 Troubleshooting Information

A log file is created in $(adb_dir)/logs/nwsrfs.

5.0 Installation Instructions

6.0 Maintenance Information

Originating Programmer/Office: Alcorn, Brenda
Colorado Basin River Forecast Center
Salt Lake City, UT

Maintenance Programmer/Office: Alcorn, Brenda
Colorado Basin River Forecast Center
Salt Lake City, UT

7.0 References

Archive Database data dictionary
NWSRFS User Documentation

Attachment A
Punch files

CARRYOVER GROUP PUNCH

```
PUNCHCG
ALL
END

$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
$                                                                      $
$                  THIS PUNCH IS GENERATED BY COMMAND PUNCHCG          $
$                        FOR CARRYOVER GROUP DEFINITION                $
$                                                                      $
$                               DATE:  2/12/2002                       $
$                                                                      $
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
CGDEF
ID CBRFC_F
TITLE 'CBRFC               '
FG   GN_F     SJ_F     UC_F     GB_F     LC_F     SV_F     GI_F
DATE 02070212Z    02040212Z    02050212Z    02100212Z    02090212Z    &
     02110212Z    02060212Z    02120212Z    02030212Z    02080212Z
END
```

FORECAST GROUP PUNCH

```
PUNCHFG
GN_F
END

$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
$                                                                      $
$                  THIS PUNCH IS GENERATED BY COMMAND PUNCHFG          $
$                        FOR FORECAST GROUP DEFINITION                 $
$                                                                      $
$                               DATE:  2/12/2002                       $
$                                                                      $
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
$
$   NORMAL FORECAST GROUP DEFINITIONS
$
FGDEF
ID GN_F
TITLE 'HRLY GREEN RIVER SEG'
SEGS WBRW4H_F BPNW4H_F LABW4L_F FCHW4H_F GBRW4R_F GBFW4O_F BSRW4H_F &
     BIGW4R_F BIGW4O_F EDNW4L_F GRRW4L_F HMFW4H_F VIVW4L_F VIVW4O_F &
     BNRU1H_F MCWW4R_F MCWW4O_F SLRW4H_F SFRW4O_F LTAW4L_F HFMW4H_F &
     GRNU1L_F GRZU1O_F FISC2H_F STMC2L_F EKRC2H_F CGGC2L_F MBLC2L_F &
     LSRC2H_F SLFC2H_F DIXW4L_F LILC2L_F YDLC2L_F JESU1L_F NFBC2H_F &
     WRMC2L_F WHIC2L_F WHBC2L_F WATU1L_F STIU1H_F STIU1O_F CRUU1H_F
END
```